

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/573,600
Source: IFup
Date Processed by STIC: 4/6/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/593,600

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
- 11 Use of <220> Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/573,600

DATE: 04/06/2006

TIME: 10:49:35

Input Set : A:\UPN-P3230-sequence listing.txt
 Output Set: N:\CRF4\04062006\J573600.raw

3 <110> APPLICANT: The Trustees of the University of Pennsylvania
 4 Wilson, James M.
 5 Gao, Guangping
 6 Alvira, Mauricio R.
 7 Vandenbergh, Luk H.
 9 <120> TITLE OF INVENTION: Adeno-Associated Virus (AAV) Clades, Sequences, Vectors
 10 Containing Same, and Uses Therefor
 12 <130> FILE REFERENCE: UPN-P3230PCT
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/573,600
 C--> 14 <141> CURRENT FILING DATE: 2006-03-24
 14 <150> PRIOR APPLICATION NUMBER: US 60/508,226
 15 <151> PRIOR FILING DATE: 2003-09-30
 17 <160> NUMBER OF SEQ ID NOS: 236
 19 <170> SOFTWARE: PatentIn version 3.3
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 2211
 23 <212> TYPE: DNA
 24 <213> ORGANISM: adeno-associated virus, clone hu.31
 26 <400> SEQUENCE:
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 31 aacgtctcgag gttttgtct tccgggttac aaataccttg gacccggcaa cgactctcgac 180
 33 aaggggggac cggtcaacgc agcagacgac gcccgcctcg agcacagacaa ggcctacgac 240
 35 cagcagctca aggccggaga caaccctgtac ctcaagtaca accacgcccga cggcgagttc 300
 37 caggagcgcc tcaaagaaga tacgtttttt gggggcaacc tcggggcggc agtctttccag 360
 39 gccaaaaaga ggcttcttga acctttgggt ctgggtgagg aagcggtctaa gacggctcct 420
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 43 aaatcggtt cacagccgc taaaagaga ctcaatttcg gtcagactgg cgacacagag 540
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 47 cttacaatgg ttcaagggtgg tggcgccacca gtggcagaca ataacgaagg tgccgatgg 660
 49 gtggtagtt ctcggggaaa ttggcattgc gattcccaat ggctggggg' cagagtcatc 720
 51 accaccagca cccgaacctg ggcctgtccc acctacaaca atcaccctcta caagcaaatc 780
 53 tccaacagca catctggagg atcttcaat gacaacgcct acttcggcta cagcaccccc 840
 55 tgggggtatt ttgacttcaa cagatccac tgccacttct caccacgtga ctggcagcga 900
 57 ctcataaca acaactgggg attccgcct aagcgactca acttcacgt ctcaacatt 960
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 63 gagggctgcc tcccgccgtt cccagccgac gttttcatga ttccctcagta cgggtatctg 1140
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 67 cctgtcgccaa tgctaaagaac gggtaacaac ttccagttca gctacgagtt tgagaacgt 1260
 69 ctttccata gcagctacgc tcacagccaa agcctggacc gactaatgaa tccactcata 1320
 71 gaccaatact tgtactatct ctcaaaagact attaacgggtt ctggacagaa tcaacaaacg 1380
 73 ctaaaattca gtgtggccgg acccagcaac atggctgtcc agggaaagaaa ctacataacct 1440

ppr 1-5

Does Not Comply
Corrected Diskette Needed

invalid 2137 response

see den 10th Euro
summary

Abert

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PATENT APPLICATION: US/10/573,600

DATE: 04/06/2006

TIME: 10:49:35

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Output Set: N:\CRF4\04062006\J573600.raw

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79	ggacctgcta tggccagcca caaagaagga	gaggaccgtt tctttctt gtctggatct	1620
81	ttaattttg gcaaacaagg aacttggaaa	gacaacgtgg atqggacaa agtcatgata	1680
83	accaacgaag aagaaattaa aactactaac	ccggtagcaa cgaggatccta tggacaagtgc	1740
85	gccacaaacc accagagtc ccaagcacag	gcccagaccc gctgggttca aaaccaagga	1800
87	atacttccgg gtatggttg gcaggacaga	gatgtgtacc tgcaaggacc catttggccc	1860
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91	aagcacccgc ctccctagat cctcatcaaa	aacacacctg tacctcgga tcctccaacg	1980
93	gcctcaaca aggacaagct gaacttttc	atcaccctgtt attctactgg ccaagtca	2040
95	gtggagatcg agtggggact gcagaaggaa	aacagcaagc gctggAACCC ggagatccag	2100
97	tacacttcca actattacaa gtctaataat	gttgaatttg ctgtaataac tgaagggtgt	2160
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103	<211> LENGTH: 2211		
104	<212> TYPE: DNA		
105	<213> ORGANISM: new AAV serotype, clone hu.32	<i>same env</i>	
107	<400> SEQUENCE: 2		
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112	gacagcagg g tcttgcgt tcctgggtac	aagtaccccg gaccggca cggactcgac	180
114	aaggggggagc cggtaacgc agcagacgc	gccccctcg agcacgacaa ggcctacgac	240
116	cagcagctca aggccggaga caacccgtac	ctcaagtaca accacgcccga cggcggatcc	300
118	caggagcggc tcaaagaaga tacgttttt	gggggcaacc tcggcggac agtcttccag	360
120	gccaaaaaga ggcttcttga accttttgtt	ctgggttggg aagccgctaa gacggctcct	420
122	ggaaaagaaga ggcctgtaga gcagttctt	caggaaccgg actctccgc gggattttggc	480
124	aaatcggtt cacagccgc taaaaagaaa	ctcaatttgc gtcagactgg cgacacagag	540
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132	accaccagca cccgaacctg ggcctgccc	acctacaaca atcacctcta caagcaaatc	780
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140	caggtcaaaag aggttacgga caacaatgg	gtcaagacca tggccaataa ccttaccagg	1020
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144	gagggtcgcc tccccccgtt cccagcgac	gttttcatgtt ttcctcagta cgggtatctg	1140
146	acgtttaatg atgggagcca ggcctgggt	cgttctgtct ttactgcct ggaatatttc	1200
148	ccgtcgaaa tgctaagaac gggtaacaac	ttccagttca gtcacgagtt tgagaacgta	1260
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162	ttaattttt gcaaacaagg aacttggaaa	gacaacgtgg atgcccacaa agtcatgata	1680
164	accaacgaag aagaaattaa aactactaac	ccggtagcaa cggagtccta tggacaagtgc	1740
166	gccacaaacc accagatgc ccaagcacag	gcccggaccc gtcgggttca aaaccaagga	1800
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RAW SEQUENCE LISTING

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174	gtttcaata	aggacaagct	gaactcttc	atcacccagt	attctactgg	ccaagtccagc	2040
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191	gagtgggtgg	ctttgaaacc	tggagccccct	caacccaaagg	caaataaca	acatcaagac	120
193	aacgctcgag	gtcttgtct	tcgggttac	aaataccctt	gaccggccaa	cggaactcgac	180
195	aagggggagc	cggtaacgc	agcagaegcg	cgcccccctcg	agcaegacaa	ggcctacgac	240
197	caycagctca	aggccggaga	caacccgtac	ctcaagtaca	accacggca	cgccgagttc	300
199	caggagccgc	tcaaagaaga	tacgtttttt	gggggcaacc	tggcgcagc	agtcttccag	360
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203	ggaaaagaaga	ggcctgtaga	gcagtctct	caggaacccgg	actctccgc	gggtattggc	480
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209	cttacaaatgg	cttcagggtgg	tggcgcacca	gtggcagaca	ataacgaagg	tgccgatgga	660
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213	accaccagca	cccgaaacctg	ggccctgccc	acctacaaca	atcacctcta	caagcaaattc	780
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223	acgttccagg	tcttcacgg	ctcagactat	cagctccctg	acgtgtcg	gtcggctcac	1080
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227	acgtttaatg	atggaaagcca	ggccgtgggt	cgttcgct	tttactgcct	gaaatattc	1200
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259	tacacttcca	actattacaa	gtctaataat	gttgaatttg	ctgttaatac	tgaagggtgt	2160
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RAW SEQUENCE LISTING DATE: 04/06/2006
 PATENT APPLICATION: US/10/573,600 TIME: 10:49:35

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 269 <400> SEQUENCE: 4

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274 gacggccggg	gtctgggtct	tcctggctgc	aagtacctcg	gacccttcaa	cggactcgcac	180
276 aagggggagc	ccgtcaacgc	ggcggacgca	gcggccctcg	agcacgacaa	ggcctacgac	240
278 cagcagctca	aagcgggtga	caatccgtac	ctggcggtata	accacgcccga	cggcgagtt	300
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282 gccaagaagc	gggttctcgta	acctctcggt	ctgggttggg	aaggcgctaa	gacggctct	420
284 ggaagaaga	gaccggtaga	gccatcaccc	cagcgttctc	cagactctc	tacgggcatc	480
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330 caaggagcc	tacctggcat	ggtctggcag	aaccgggacg	tgtacctgca	gggtcctatc	1860
332 tggccaaga	ttccctcacac	ggacggcaac	tttcatccct	cggcgtat	gggaggctt	1920
334 ggactgaaac	acccgcctcc	tcagatctg	attaagaata	cacctgttcc	cgcggatct	1980
336 ccaactacct	tcagtcaga	caagctggcg	tcgttcatca	cgcagtagac	cacccggacag	2040
338 gtcagcgtgg	aaatttgaatg	ggagctgcag	aaagagaaca	gcaagcgctg	gaacccagag	2100
340 attcagtata	cttccaaacta	taacaaatct	gttaatgtgg	actttactgt	ggacactaat	2160
342 ggtgtgtatt	cagagctcg	ccccattggc	accagataacc	tgacttgtaa	tctgtaa	2217
345 <210> SEQ ID NO: 5						
346 <211> LENGTH: 2217						
347 <212> TYPE: DNA						
348 <213> ORGANISM: new AAV serotype, clone hu.6						
350 <400> SEQUENCE: 5						
351 atggctgccc	atggttatct	tccagattgg	ctcgaggaca	acctctctga	gggcattcgc	60
353 gagtggtggg	acttgaaac	tggagccccg	aaacccaaag	ccaaccagca	aaagcaggac	120
355 gacggccggg	gtctgggtct	tcctggctac	aagtacctcg	gacccttcaa	cggactcgcac	180

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,600

DATE: 04/06/2006
TIME: 10:49:35

Input Set : A:\UPN-P3230-sequence listing.txt
Output Set: N:\CRF4\04062006\J573600.raw

357	aagggggagc	ccgtcaacgc	ggcgacgca	gcggccctcg	agcacgacaa	ggcctacgac	240
359	caccaactca	aagcggtga	caatccgtac	ctgcggata	accacgcccga	cgccgagtt	300
361	caggagcgtc	tgcaagaaga	tacgtcttt	ggggcaacc	tcggcgagc	agtcttccag	360
363	gccaagaagc	gggttctcga	acctctcggt	ctggttgagg	aaggcgctaa	gacggctcct	420
365	gaaagaaga	gaccggtaga	gccatcaccc	cagcgttctc	cagactcctc	tacgggcac	480
367	ggcaagacag	gccagcagcc	cgcgaaaaag	agactcaact	ttggcgagac	tggcgactca	540
369	gagtcagtgc	ccgaccctca	accaatcgga	gaacccccc	caggccc	tggctctgg	600
371	tctgtacaa	tggctcgagg	cggtggcgct	ccaatggcag	acaataacga	aggcgccgac	660
373	ggagtggta	gttcctcagg	aaattggcat	tgcgattccg	catgctggg	cgacagagtc	720
375	atcaccacca	gcacccgacc	ctggccctc	cccacctaca	acaaccac	ctacaagcaa	780
377	atctccaacg	ggacatcggg	aggaagcacc	aacgacaaca	cctacttgg	ctacagcacc	840
379	ccctgggggt	atttgactt	taacagattc	cactgccc	acttca	tgactggcag	900
381	cgactcatca	acaacaactg	gggatccgg	ccccagagac	tcaacttcaa	gtcttcaac	960
383	atccaggta	aggaggta	cgagaatgaa	ggcaccaaga	ccatcgccaa	taaccttacc	1020
385	agcacattc	aggttta	ggactcgaaa	taccagctcc	cgtacgttct	eggtctcg	1080
387	caccagggt	gcccgcctc	gttcccgccg	gacgttctca	tgatcttca	gtacgggtac	1140
389	ctgactctga	acaacggcag	tcaggccgtg	ggcggttct	ccttctactg	cctggagtgac	1200
391	tttcttctc	aatgcggag	aacgggcaac	aactttgagt	tca	gtttgaggac	1260
393	gtgccttcc	acagcagcta	cgcgcata	caaagcctgg	accggtgtat	gaacccccc	1320
395	atgaccagg	acctgtacta	cctgtctgg	actcgttca	cgggaggtac	cgccaggaact	1380
397	cageagtgc	tat	ggccgggct	aataacatgt	cggtcgagc	aaaaaactgg	1440
399	ctacccgggc	cctgttacccg	gcagcaacgc	gtctccacga	cactgtcgca	aaataacaac	1500
401	agcaacttgc	cttggacccg	tgccaccaag	tatcatgt	atggcagaga	ctctctgg	1560
403	aatcccggt	tgcgtatggc	aacgcacaag	gacgacgaag	agcgatttt	tccatccagc	1620
405	ggagtcttgc	tgttggaa	acaggagct	ggaaaagaca	acgttgacta	tagcagcgtt	1680
407	atgtaacca	gtgaggaaga	aatcaaaaacc	accaacccag	tggccacaga	acagta	1740
409	gtggggccg	ataaacctca	acagaaaaac	gcccgttca	ttgttagggc	cgtcaacagt	1800
411	caaggacgt	tacctggcat	ggtotggcag	aaccgggacg	tgtacctgca	gggtcctatc	1860
413	tggccaaga	ttccacac	ggacggcaac	tttcatctt	cgccgtgtat	gggaggctt	1920
415	ggactgaaac	acccgcctc	tcagatctgt	attaagaata	cacctgttcc	cgccgatct	1980
417	ccaactacct	tca	caagctggc	tcgttcatca	cgccgtacag	cacccgacag	2040
419	gtcagcgtgg	aaattgaatg	ggagctgcag	aaagagaaca	gcaagcgtg	gaacccagag	2100
421	attcgtata	cttccaacta	ctacaaatct	acaaatgtgg	acttgcgt	caatactgag	2160
423	gtacttatt	cagacgc	ccccattggc	acccgttacc	tcacccgtaa	cctgtaa	2217

426 <210> SEQ ID NO: 6
 427 <211> LENGTH: 2217
 428 <212> TYPE: DNA
 429 <213> ORGANISM: new AAV serotype, clone hu.41
 431 <400> SEQUENCE: 6

432	atggctgt	acggtatct	tccagattgg	ctcgaggaca	acctctctga	gggcattcgc	60
434	gagtgggg	acctgaaacc	tggggccccc	aagcccaagg	ccaaaccagca	gaaggcaggac	120
436	gacggccggg	gtctgggt	tcctggctac	aagtacctcg	gacccttcaa	cgactcgac	180
438	aagggggagc	ccgtcaacgc	ggcgacgca	gcccctcg	agcacgacaa	ggcctacgac	240
440	cagcagctca	aagcggtga	caatccgtac	ctgcggata	accacgcccga	cgccgagtt	300
442	caggagcgtc	tacaagaaga	tacgtcttt	ggggcaacc	tcggcgagc	agtcttccag	360
444	gccaagaagc	gggttctcga	acctctcggt	ccgggttgg	aagctgtaa	gacggctcct	420
446	gaaagaaga	gaccggtaga	accgcac	cagcgttccc	ccgactcctc	caacggc	480
448	ggcaagaaag	gccagcagcc	cgcgtaaaaag	agactgaact	ttggtcagac	tggcgactca	540
450	gagtca	ccgaccctca	accaatcgga	gaaccaccag	caggccc	tggctctgg	600

Please
correct
this
type?
error in
subsequent
sequences

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/573,600

DATE: 04/06/2006

TIME: 10:49:36

Input Set : A:\UPN-P3230-sequence listing.txt
Output Set: N:\CRF4\04062006\J573600.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date